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Doug Hardin* (doug.hardin@vanderbilt.edu), Dept of Mathematics, Vanderbilt University, Nashville, TN 37240. *Discrete minimum energy problems on rectifiable and fractal sets.*

We consider ‘ground state’ point configurations on a compact metric space that minimize a weighted inverse power law energy functional. We review classical and recent results concerning asymptotic geometrical properties of such configurations as the number of points goes to infinity and compare and contrast what is known for the cases that the compact set is rectifiable set (non-fractal case) with the general case that it is a fractal set. (Received August 23, 2015)